	Application No.	Applicant(s)
	09/696,410	HORVAT ET AL.
Notice of Allowability	Examiner	Art Unit
	Eva Yi Zheng	2634
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included  n will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>1/5/2005</u> .		
2. 🔀 The allowed claim(s) is/are <u>7,9,14 and 16-19</u> .		
3.   The drawings filed on 25 October 2000 are accepted by the	e Examiner.	
4.	been received.  been received in Application No cuments have been received in this  of this communication to file a reply ENT of this application.  itted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review ( PTO- a Amendment / Comment or in the Comment or in the Comment of the drawing he header according to 37 CFR 1.121( sit of BIOLOGICAL MATERIAL re	national stage application from the complying with the requirements  'S AMENDMENT or NOTICE OF tion is deficient.  948) attached  Office action of the back) of d).  must be submitted. Note the
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)  3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendr	te

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Poh Chua on Feb. 4, 2005.

The application has been amended as follows:

- 1) Cancel claim 2.
- 2) Regarding claim 7,
  - a) on line 8 and 9, delete word: "demodulated".

  - on line 13, add: --; and applying the data slicer output to a matched filter
     to reduce the likelihood of errors in the demodulated signal after
     "demodulated signal".
- 3) Cancel claim 8.
- 4) Regarding claim 9, on line 1, change "claim 8" to -- claim 7 --.
- 5) Regarding claim 14,
  - a) on line 10, add word: -- by after phase: "Q signal".
  - b) on line 11, change: "the demodulated signal" to a demodulated signal --.

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on line 16, add: --; and applying the data slicer output to a matched filter to reduce the likelihood of errors in the demodulated signal – after "output signal".

- 6) Cancel claim 15.
- 7) Regarding claim 16, on line 1, change "claim 15" to -- claim 14 --.
- 8) Regarding claim 17, on line 13, add: --; and a matched filter with input operably connected to the data slicer output, which matched filter provides for correction of errors in the data slicer output after "demodulated signal".
- 9) Cancel claim 22.

## Allowable Subject Matter

- 2. Claims 7, 9, 14 and 16-19 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

None of the prior art teaches or suggests a frequency demodulating method comprising generating a first signal by fixing the modulated signal amplitude at a predetermined level; generating a second signal by delaying the first signal; use cross product of the first and second signal to generating an output signal; squaring up the output signal by applying the output signal to a data slicer; wherein the data slicer comprising a lowpass filter which generating a reference signal; applying the output signal and the reference signal to the inputs of a comparator; the comparator output consists of a squared up demodulated signal. A matched filter is applying to the output of the data slicer for reduce the likelihood of errors in the demodulated signal.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## **Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eva Yi Zheng whose telephone number is (571) 272-3049. The examiner can normally be reached on 7:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-879-9306.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Eva Yi Zheng Examiner Art Unit 2634

February 4, 2005

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SHUWANG LIU PRIMARY EXAMINER